

Title (en)

HIGH RESOLUTION BROADBAND MONOLITHIC SPECTROMETER AND METHOD

Title (de)

HOCHAUFLÖSENDES BREITBANDIGES MONOLITHISCHES SPEKTROMETER UND VERFAHREN

Title (fr)

SPECTROMÈTRE MONOLITHIQUE À LARGE BANDE HAUTE RÉOLUTION ET PROCÉDÉ

Publication

**EP 3400428 A1 20181114 (EN)**

Application

**EP 17702963 A 20170106**

Priority

- EP 16150569 A 20160108
- NL 2017050004 W 20170106

Abstract (en)

[origin: WO2017119812A1] A monolithic spectrometer (10) for spectrally resolving light (L), comprises a body (2) of solid material having optical surfaces (3,4,5,6a-6c,8) configured to guide the light (L) along an optical path (E1,E2,E3,E4) inside the body (2). The optical surfaces of the body (2) comprise a segmented focusing surface (6a,6b) comprising first and second continuously functional optical shapes (Ca,Cb) to focus received parts of respective beams (La,Lb) onto respective focal position (fa,fb) in an imaging plane (P) outside the body (2). The second continuously functional optical shape (Cb) is separated from the first continuously functional optical shape (Ca) by an optical discontinuity (Dab) there between.

IPC 8 full level

**G01J 3/02** (2006.01); **G01J 3/18** (2006.01)

CPC (source: EP US)

**G01J 3/0208** (2013.01 - EP US); **G01J 3/021** (2013.01 - EP US); **G01J 3/0259** (2013.01 - EP US); **G01J 3/18** (2013.01 - EP US); **G01J 3/2823** (2013.01 - US); **G01J 2003/1204** (2013.01 - US); **G01J 2003/1282** (2013.01 - EP US)

Citation (search report)

See references of WO 2017119812A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2017119812 A1 20170713**; EP 3400428 A1 20181114; EP 3400428 B1 20220302; US 10508951 B2 20191217; US 2019017869 A1 20190117

DOCDB simple family (application)

**NL 2017050004 W 20170106**; EP 17702963 A 20170106; US 201716068316 A 20170106